



Change Order No. 1

Project Name: 2010 Water Reclamation Facility Improvements	HDR Project No.: 133655
Project Owner: (Name, Address) City of Rapid City 300 6 th Street Rapid City, SD 57701	Owner's Project No.: WRF10-1856 / 50791
Project Contractor: (Name, Address) RCS Construction, Inc. 2400 Commerce Road Rapid City, SD 57702	Date of Contract: May 28, 2010

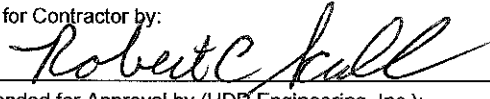
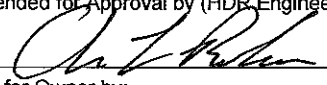
It is agreed to modify the Contract referred to above as follows:

CPR #	ITEM AND DESCRIPTION OF CHANGES	CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIME
A2	Temporary Boilers	\$6,876.50	0
A3	Stainless Steel Boiler Flue	\$2,963.00	0
C1	MCC, Cross Collectors	\$49,087.90	15
C3	Reuse Feeder Wire	(\$12,323.00)	0
Difference Net		\$46,604.40	15

Summary: It is agreed to modify the Contract referred to above as follows:

Contract Price prior to this Change Order	Contract Time prior to this Change Order
\$ 2,128,968.40	Schedule C Substantial Completion – October 4, 2010
Net Increase (decrease) of this Change Order	Net Increase (decrease) of this Change Order
\$ 46,604.40	15 days
Revised Contract Price with all approved Change Orders	Revised Contract Time with all approved Change Orders
\$ 2,175,572.80	Schedule C Substantial Completion – October 19, 2010

The changes included in this Change Order are to be accomplished in accordance with the terms, stipulations and conditions of the original Contract as though included therein.

Accepted for Contractor by: 	Date: 9-3-10
Recommended for Approval by (HDR Engineering, Inc.): 	Date: 9-3-10
Approved for Owner by:	Date:
Approved: (Other - when required)	Date:

Distribution: ☒ Owner ☒ Contractor ☐ Office ☐ Field ☐ Other

Change Order Part C-1. Addition of new wiring and motor control center accommodations for new secondary Clarifier gear boxes.

The WRF experienced a failure of an existing 43 year old gearbox Staff discovered that a direct replacement was not available and that the best option was replacement of a single gear box with two smaller gear boxes.

The new gear boxes have two separate motors, requiring the addition of more wiring and additional components in the new Motor Control Center. The facility has three other original gearboxes that will need to be changed out in the near future, all requiring the same wiring changes. This change would provide the Motor Control Center starters and other electrical components to accommodate 4 sets of secondary gear boxes. Installation of the electrical equipment at this time will be the most cost effective due to minimum charges for cabling and because it is will cost less to obtain the appropriate factory sized motor control center now, as opposed to making retrofits to the switch gear in the future..



Change Order Part A-2 Provision of a rental boiler to take the place of a failed existing boiler.

The recent failure of one of two digester boilers has left the facility without adequate heating capacity for the primary sludge digesters. Cost to repair the boiler is projected at over \$30,000.00. Lack of heat to the digesters creates an upset condition resulting in inadequate treatment of sludge, foaming of sludge out of the digesters and significant odor issues. The plan called for being able to take one boiler out of service at a time, but was predicated on a very limited amount of time as opposed to several months.

The rental boiler will be a cost share with the sub contractor Action Mechanical for rental rates, and with Action providing all necessary piping and connections free of charge. In addition to restoring needed heating capacity, the sizing of the rental boiler will also allow dismantling of both existing boilers simultaneously allowing faster replacement, bringing the plant back on line sooner.

